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TitleApplication of on-the-fly **kinematic GPS** to **seismic** surveying.**Author(s)**[Lapucha-D](#); [Pottle-D](#); [Fellows-M](#).**Author affiliation**

John E Chance & Assoc Inc, Lafayette, LA, USA.

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Abstract

The application of on-the-fly **kinematic GPS** (OTF-KGPS) to establishing a large scale **seismic** survey control is pioneered. The **seismic** points are staked out in the field using the real-time DGPS method and their precise coordinates are determined using OTF-KGPS. The paper briefly describes land **seismic** survey requirements. It then outlines the key concepts of the employed method of OTF-KGPS. Field surveys are described and sample results are given. (6 refs).

Descriptors[geophysical-techniques](#); [radionavigation](#); [satellite-relay-systems](#); [seismology](#).**Keywords**large scale **seismic** survey control; on the fly **kinematic GPS**; **seismic** surveying; real time DGPS method; coordinates; land **seismic** survey requirements; OTF KGPS.**Classification codes**

A9385 (Instrumentation and techniques for geophysical,

hydrospheric and lower atmosphere research).
A9130R (Explosion seismology).
B7710 (Geophysical techniques and equipment).
B6250G (Satellite relay systems).
B6330 (Radionavigation and direction finding).

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